

PERSONAL INFORMATION

Anca HERMENEAN



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WORK EXPERIENCE

From 2020

Professor - Associate Member

Department of Biochemistry and Molecular Biology, Faculty of Biology, University of Bucharest, Romania, www.unibuc.ro

- Master Program: Applied Clinical Biochemistry; teaching courses and tutorials: Basis of the cellular and tissular pathology
- Research in histology, histopathology and electron microscopy

From 2017

Professor - Associate Member

Faculty of Engineering in Foreign Languages, Politehnica University of Bucharest, www.upb.ro

- Master Program: Biomaterials for Tissue Engineering; teaching courses and tutorials: Cell and Tissue Biology, Debilitating Diseases of Tissue, Experimental Models for Tissue Regeneration
- Business or sector** Academic

From 2016

Director of VGWU Doctoral Studies Council

Vasile Goldis Western University of Arad, Romania, www.uvvg.ro

- Management of Doctoral Studies Council, strategies for Doctoral Schools of Medicine and Biology
- Business or sector** Management

From 2010

Vice-rector for Research

Vasile Goldis Western University of Arad, Romania, www.uvvg.ro

- Management of Research in VGWUA
- Business or sector** Management

From 2020

Director of Life Science Institute and Principal Investigator

Institute of Life Sciences, Vasile Goldis Western University of Arad, Romania, www.uvvg.ro

- Management of research projects and research activity in microscopy labs and animal facility
- Business or sector** Research

From 2010

Professor

Faculty of Medicine, Vasile Goldis Western University of Arad, Romania, www.uvvg.ro

- Courses in Histology
 - Research in Histology/Cell biology
- Business or sector** Academic

EDUCATION AND TRAINING

- 2015 **Habilitation in Biology**
Ministry of Education Decision no.4922/18.08.2015
 - Postdoctoral teaching and research qualification in PhD supervising in biology field

- 1997-2003 **PhD in Biology**
Faculty of Biology, Babes-Bolyai University of Cluj-Napoca, Romania, www.ubb.ro
 - Electron microscopy, histopathology and immunohistochemistry basis

- 1989-1994 **Bs in Biology**
Faculty of Biology, Babes-Bolyai University of Cluj-Napoca, Romania, www.ubb.ro

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

PERSONAL SKILLS

Communication skills Good communication skills gained through my experience of manager, teacher, scientist and speaker at scientific meetings

Organisational / managerial skills My activities highlighting organisational/managerial skills are listed below:

- Vice-Rector for research in VGWU (since 2010);
- Deputy director of Life Science Institute in VGWU (since 2010);
- Director of VGWU Doctoral Council (since 2016);
- **Project Manager:** 5 grants financed by european funds (Principal investigator), 9 grants financed by national funds (UEFISCDI and Romanian Academy (Principal Investigator)
- **Establish/Management of the new research infrastructures:** Animal facility of VGWU (http://erris.gov.ro/animal_facility-ILS-UVVG); Histopathology, Optical, Fluorescence and Confocal Microscopy Facility (<http://erris.gov.ro/Histology-ILS-UVVG>)

Job-related skills Areas of expertise – histology, histopathology, immunohistochemistry and electron microscopy in the following scientific fields:

- **Phytomedicine**
Modulation of signal transduction pathways by phytochemicals
Molecular regulation of anti-inflammatory responses by phytochemicals
Molecular regulation of anti-fibrotic responses by phytochemicals
Interactions between phytochemicals and different drugs or chemicals
- **Nanobiotechnology**
Bio-interfaces characterization, in vivo biocompatibility studies
Characterisation of interaction between nanomaterials/nanomedicines and biological systems (proteins, enzymes, cell membranes, organelles)
In vivo assays for uptake studies, structural and ultrastructural toxicological effects
- **Regenerative medicine**
In vivo biocompatibility studies
Tissue repair and regeneration pathways
Molecular signals, growth factors, molecular recognition

ADDITIONAL INFORMATION

Driving licence	Driving licence B
Publications	122 ISI articles (WoS); H-index = 30 (Scopus), 36 (Google scholar)
Patents	<p>European patent: “<i>Pharmaceutical composition useful for preventing and treating liver disease, comprises oil isolated from Silybum marianum seed</i>”, Patent Number: WO2013124700-A2; HU201300110-A1, Patent assignee: Univ. Debrecen, Hungary and Vasile Goldis Western University of Arad, Romania</p> <p>Patent application no. A/01052, 05.12.2018 to OSIM “System drug delivery chrysin-random methyl-beta cyclodextrin (RAMEB) with anti-fibrosis potential to heal hepatic fibrosis lesions”</p> <p>Patent application no. A/00327, 14.06.2022 “Supramolecular “drug delivery” nanosystem for the delivery of flavonoids based on calix [4] arene derivatives (OTX008) and sulfobutylether-β-cyclodextrin (SBECD)” submitted to Romanian State Inventions and Trademarks Office (OSIM) – principal inventor</p> <p>Patent application no. A/00328, 14.06.2022 “Phytotherapeutic composition based on gemotherapeutic extract of <i>Corylus avellana</i> enriched with chrysin / cyclodextrin nanocomplexes for liver fibrosis in diabetes” submitted to Romanian State Inventions and Trademarks Office (OSIM) - principal inventor</p>
Projects	5 grants projects financed by EU funds (manager), 9 research projects financed by national funds (UEFISCDI and Romanian Academy (manager), 1 project financed by structural funds (manager) 2 research projects financed by EU funds (researcher), 2 projects financed by structural funds (researcher)
Management Scientific Committees	COST TD0901 “Hypoxia sensing, signaling and adaptation” supported by the EU RTD Framework Programme, 2009-2013 (starting date: 16.11.2009; end date: 15.11.2013) http://hypoxianet.com
Editorial board	<p>International Journal of Molecular Sciences (MDPI), Section board for “Molecular Pathology, Diagnostics and Therapeutics”, IF=5,92 (https://www.mdpi.com/journal/ijms)</p> <p>Experimental and Therapeutic Medicine (Spandidos Publications), Online ISSN: 1792-1015, IF=2,75 (https://www.spandidos-publications.com/etm)</p> <p>Medicine International (Spandidos Publications), Online ISSN: 2754-1304 (https://www.spandidos-publications.com/mi)</p> <p>Histology and Histopathology Research, Pulsus Publishing House</p> <p>Studia Universitatis Vasile Goldis, Life Science Series, ISSN: 1584-2363</p> <p>Timisoara Medical Journal</p>
Guest editor	<p>Special Issue "Biocompatibility of Nanomaterials in Medical Applications", Nanomaterials, IF=5,71 (https://www.mdpi.com/journal/nanomaterials/special_issues/biocom_nano_med)</p> <p>Special Issue "Liver Fibrosis Resolution: From Molecular Mechanisms to Therapeutic Opportunities", International Journal of Molecular Sciences, IF=6,208 (https://www.mdpi.com/journal/ijms/special_issues/Liver_Fibrosis_Resolution)</p> <p>Special Issue "Bio-Organic Materials for Tissue Engineering and Regenerative Medicine", Pharmaceutics, IF=6,52 (https://www.mdpi.com/journal/pharmaceutics/special_issues/Bioorganic_Materials)</p> <p>Special Issue "New Strategies and Therapeutic Targets Involved in Liver Fibrosis Management", Biomedicines, IF=4,75 (https://www.mdpi.com/journal/biomedicines/special_issues/45VHS95041)</p> <p>Topic Editor: Diabetes and cardiovascular disease: new therapeutic interventions, Frontiers in Pharmacology, IF=5,6</p>

<https://www.frontiersin.org/research-topics/58668/diabetes-and-cardiovascular-disease-new-therapeutic-interventions>

Visiting professor

2022-2023 “Luigi Vanvitelli” University of Campania, Department of Experimental Medicine, Via S. Maria di Costantinopoli, 16 – 80138, Naples
2023-2024 “Luigi Vanvitelli” University of Campania, Department of Advanced Medical and Surgical Sciences (DAMSS), Via S. Maria di Costantinopoli, 16 – 80138, Naples
2024-2025 “Luigi Vanvitelli” University of Campania, Department of Advanced Medical and Surgical Sciences (DAMSS), Via S. Maria di Costantinopoli, 16 – 80138, Naples

Research Projects Assessment

Bulgaria Research Calls through the Ministry of Education and Research of Bulgaria (2008, 2009)
EU Research Calls in the frame of Romania-Hungaria Cross-Border Cooperation Programme 2007-2013 (HURO/0801 and HURO/0901 Calls)
Romania Research Calls through UEFISCDI (The Executive Agency for Higher Education, Research, Development and Innovation Funding)
FLAG-ERA Joint Transnational Call 2019: FLAG-ERA - Graphene - Basic Research 2 2019
Research Call through Estonian Research Council, 2021

Certifications

Project Manager (Certificate no. 0107518/2008 by Ministry of Work and Ministry of Education) and (Certificate Serie C no 1629/26.02.2019)
ISO 14001 Environmental External Audit Expert (Certificate no. 0187898/2007 by Ministry of Work and Ministry of Education)
ISO 9001 Quality External Audit Expert (Certificate no. 0187898/2007 by Ministry of Work and Ministry of Education)
Expert in Research Management (Certificate by UEFISCDI through Strategic project: University Management Strengthening - 2011)



CURRICULUM VITAE EUROPASS

ANNEXES

Prof. univ. dr. Anca Hermenean Publications list

2008

1. Hadaruga D.I., Hadaruga N., **Hermenean A.**, Ravis A., Paslaru V., Codina G. 2008. Bionanomaterials: Thermal Stability of the Oleic Acid / α - and β -cyclodextrin Complexes, *Revista de Chimie (București)*, 59 (9): 994 – 998, 2008, IF=0.389

Q4 CHEMISTRY, MULTIDISCIPLINARY; *Rank in Category: 109 of 140*

Q3 ENGINEERING, CHEMICAL; *Rank in Category: 86 of 128*

Impact factor: 0.552(2009)

2010

2.Radu M., Munteanu M.C., Petrache S., Serban A.I., Dinu D., **Hermenean A.**, Costache M., Dinischiotu A. 2010. Depletion of intracellular glutathione and increase of lipid peroxidation mediate cytotoxicity of hematite nanoparticles in MRC-5 cells, *Acta Biochimica Polonica*, 57 (3): 355-260

Q4 BIOCHEMISTRY & MOLECULAR BIOLOGY; *Rank in Category: 228 of 283*

Impact factor: 1.262 (2009)

Q3 AIS

3.Munteanu M.C., Radu M., **Hermenean A.**, Sima C., Dinu D., Costache M., Grigoriu G., Dinischiotu A. 2010. Antioxidative response induced by SiO₂ nanoparticles in MRC5 cell line, *Romanian Biotechnological Letters*, 15 (1): 5000-5007, IF=0.219

Q4 BIOTECHNOLOGY & APPLIED MICROBIOLOGY; *Rank in Category: 149 of 152*

Impact factor: 0.152 (2009)

4.Kevorkian S., Gorgescu S., Manea M.A., Zaulet M., **Hermenean A.**, Costache M. 2010. Genetic diversity using microsatellite markers in four Romanian autochthonous sheep breeds, *Romanian Biotechnological Letters*, 15(1): 5059-5065 , IF=0.219

Q4 BIOTECHNOLOGY & APPLIED MICROBIOLOGY; Rank in Category: 149 of 152
Impact factor: **0.152 (2009)**

5.Xuan T.P., Georgescu S.E., Manea M.A., **Hermenean A.** 2010. Costache M., Genetic diversity and phylogenetic relationships of Romanian cattle breeds inferred from cytochrome b gene partial sequences, *Romanian Biotechnological Letters*, 15 (2): 5154-5158, IF=0.219

Q4 BIOTECHNOLOGY & APPLIED MICROBIOLOGY; Rank in Category: 149 of 152
Impact factor: **0.152 (2009)**

6.Xuan T.P, Georgescu S.E., Manea M.A., **Hermenean A.**, Dinischiotu A., Costache M. 2010. Phylogenetic relationships of Romanian cattle to other cattle populations determined using mitochondrial DNA D-Loop sequence variation, *Romanian Biotechnological Letters*, Vol.15, nr.3, 5288-5293,2010

Q4 BIOTECHNOLOGY & APPLIED MICROBIOLOGY; Rank in Category: 149 of 152
Impact factor: **0.152 (2009)**

2011

7.Dinu D., Bodea G.O., Ceapa C.D., Munteanu M.C., Israel Roming F., **Hermenean A.**, Costache M., Zărnescu O., Dinischiotu A. 2011. Adapted response of the antioxidant defense system to oxidative stress induced by deoxynivalenol in Hek-293 cells, *Toxicon*, 57 (7): 1023-1024, IF=2.508

Q2 PHARMACOLOGY & PHARMACY; Rank in Category: 109 of 261

Q2 TOXICOLOGY; Rank in Category: 35 of 83

Impact factor: **2.451 (2010)**

2012

8.**Hermenean A.**, Popescu C., Ardelean A., Stan M., Hadaruga N., Mihali C.V., Costache M., Dinischiotu A. 2012. Hepatoprotective Effect of Berberis vulgaris L.extract/beta-cyclodextrin on carbon tetrachloride – induced acute toxicity in mice, *International Journal of Molecular Sciences*, 13, 9014-9034

Q2 CHEMISTRY, MULTIDISCIPLINARY; Rank in Category: 45 of 154

Impact factor: **2.598 (2011)**

2013

9.**Hermenean A.**, Ardelean A., Stan M., Herman H., Mihali C.V., Costache M., Dinischiotu A. 2013. Protective effects of naringenin on carbon tetrachloride-induced acute nephrotoxicity in mouse kidney, *Chemico-Biological Interactions*, 205 (2): 138-147

Q2 BIOCHEMISTRY & MOLECULAR BIOLOGY; Rank in Category: 130 of 290

Q2 PHARMACOLOGY & PHARMACY; Rank in Category: 75 of 261

Q2 TOXICOLOGY; Rank in Category: 28 of 85

Impact factor: **2.967 (2012)**

10.Dinescu S., Galateanu B., Albu M., Lungu A., Radu E., **Hermenean A.**, Costache M. 2013. Biocompatibility Assessment of Novel Collagen-Sericin Scaffolds Improved with Hyaluronic Acid and Chondroitin Sulfate for Cartilage Regeneration, *Journal of Biomedicine and Biotechnology (BioMed Research International)*, ID 598056, 11 pages

Q3 BIOTECHNOLOGY & APPLIED MICROBIOLOGY; Rank in Category: 85 of 123

Q3 MEDICINE, RESEARCH & EXPERIMENTAL; *Rank in Category: 107 of 163*
Impact factor: 1.579 (2012)

11. Ciobanu C.S., Iconaru S.L., Pasuk I., Vasile B.S., Lupu A.R., **Hermenean A.**, Dinischiotu A., Predoi D. 2013. Structural properties of silver doped hydroxyapatite and their biocompatibility, *Materials Science and Engineering: C-Materials for Biological Applications*, 33 (3):1395-1402, IF=2.736

Q2 MATERIALS SCIENCE, BIOMATERIALS; *Rank in Category: 11 of 27*
Impact factor: 2.404 (2012)

2014

12. **Hermenean A.**, Ardelean A., Stan M., Hadaruga N., Mihali C.V., Costache M., Dinischiotu A. 2014. Antioxidant and Hepatoprotective Effects of Naringenin and Its β -Cyclodextrin Formulation in Mice Intoxicated with Carbon Tetrachloride: A Comparative Study, *Journal of Medicinal Food*, 17(6):670-677, IF= 1.699

Q3 CHEMISTRY, MEDICINAL; *Rank in Category: 40 of 58*

Q2 FOOD SCIENCE & TECHNOLOGY; *Rank in Category: 48 of 123*

Q3 NUTRITION & DIETETICS; *Rank in Category: 54 of 79*

Impact factor: 1.699 (2013)

13. Dinescu S., Ionita M., Pandeale A.M., Galateanu B., Iovu H., Ardelean A., Costache M., **Hermenean A.** 2014. In vitro cytocompatibility evaluation of chitosan/graphene oxide 3D scaffold composites designed for bone tissue engineering, *Bio-Medical Materials and Engineering*, 24: 2249–2256, IF=1.091

Q4 ENGINEERING, BIOMEDICAL; *Rank in Category: 62 of 76*

Q4 MATERIALS SCIENCE, BIOMATERIALS; *Rank in Category: 26 of 32*

Impact factor: 0.847 (2013)

Q3 AIS

14. Stan M.S., Memet I., Sima C., Popescu T., Teodorescu V.S., **Hermenean A.**, Dinischiotu A. 2014. Si/SiO₂ quantum dots cause cytotoxicity in lung cells through redox homeostasis imbalance. *Chemico-Biological Interactions*, 220: 102–115

Q2 BIOCHEMISTRY & MOLECULAR BIOLOGY; *Rank in Category: 133 of 291*

Q2 PHARMACOLOGY & PHARMACY; *Rank in Category: 79 of 256*

Q2 TOXICOLOGY; *Rank in Category: 28 of 87*

Impact factor: 2.982 (2013)

15. Haskó J., Fazakas C., Molnár J., Nyúl-Tóth A., Herman H., **Hermenean A.**, Wilhelm I., Persidsky Y., Krizbai I. 2014. CB2 Receptor Activation Inhibits Melanoma Cell Transmigration through the Blood-Brain Barrier, *International Journal of Molecular Sciences*, 15: 8063-8074, IF= 2.862

Q2 CHEMISTRY, MULTIDISCIPLINARY; *Rank in Category: 52 of 148*

Impact factor: 2.339 (2013)

Q2 AIS

2015

16. Ionita M., Vasile E., Crica L.E., Voicu S.I., Pandele A.M., Dinescu S., Predoiu L., Galateanu B., **Hermenean A.**, Costache M. 2015. Synthesis, characterization and in vitro studies of polysulfone/graphene oxide composite membranes, *Composites: Part B*, vol. 72, 108-115, 2015, IF= 3.850

Q1 ENGINEERING, MULTIDISCIPLINARY; Rank in Category: 5 of 85

Q1 MATERIALS SCIENCE, COMPOSITES; Rank in Category: 5 of 124

Impact factor: 2.983 (2014)

17. Radu (Balas) M, Din (Popescu) IM, **Hermenean A***, Cinteza OL, Burlacu R, Ardelean A, Dinischiotu A. 2015. Exposure to Iron Oxide Nanoparticles Coated with Phospholipid-Based Polymeric Micelles Induces Biochemical and Histopathological Pulmonary Changes in Mice, *International Journal of Molecular Sciences*, 16, 29417–29435; doi:10.3390/ijms161226173 (*corresponding author)

Q2 BIOCHEMISTRY & MOLECULAR BIOLOGY; Rank in Category: 134 of 290

Q2 CHEMISTRY, MULTIDISCIPLINARY; Rank in Category: 46 of 157

Impact factor: 2.862 (2014)

18. Balta C, Herman H, Boldura O.M., Gasca I., Rosu M, Ardelean A, **Hermenean A.** 2015. Chrysin attenuates liver fibrosis and hepatic stellate cell activation through TGF- β /Smad signaling pathway, *Chemico-Biological Interactions* 240 (2015) 94-101

Q3 BIOCHEMISTRY & MOLECULAR BIOLOGY; Rank in Category: 155 of 290

Q2 PHARMACOLOGY & PHARMACY; Rank in Category: 110 of 255

Q2 TOXICOLOGY; Rank in Category: 40 of 88

Impact factor: 2.577 (2014)

19. Anghel N., Cotoraci C., Ivan A., Suciuc M., Herman H., Balta C., Nicolescu L., Olariu T., Galajda Z., Ardelean A., **Hermenean A.** 2015. Chrysin attenuates cardiomyocyte apoptosis and loss of intermediate filaments in a mouse model of mitoxantrone cardiotoxicity, *Histology and Histopathology*, 30 (12), 1465-1476

Q3 CELL BIOLOGY; Rank in Category: 138 of 184

Q2 PATHOLOGY; Rank in Category: 34 of 76

Impact factor: 2.096 (2014)

20. **Hermenean A.**, Damache G., Albu P., Ardelean A., Ardelean G., Ardelean D.P., Horge M., Nagy N., Braun M., Zsuga M., Kéki S, Costache M., Dinischiotu A. 2015. Histopathological alterations and oxidative stress in liver and kidney of *Leuciscus cephalus* following exposure to heavy metals in the Tur River, North Western Romania, *Ecotoxicology and Environmental Safety*, 119: 198–205

Q2 ENVIRONMENTAL SCIENCES; Rank in Category: 56 of 223

Q2 TOXICOLOGY; Rank in Category: 34 of 88

Impact factor: 2.762 (2014)

21. **Hermenean A.**, Stan M., Ardelean A., Pilat L., Mihali C.V., Popescu C., Nagy L., Deák G., Zsuga M., Kéki S., Bácskay I., Fenyvesi F., Costache M., Dinischiotu A., Vecsernyés M. 2015. Antioxidant and hepatoprotective activity of milk thistle (*Silybum marianum* L. Gaertn.) seed oil, *Open Life Sciences*, 10: 147–158

Q4 BIOLOGY; Rank in Category: 86 of 86

Impact factor: 0.448 (2014)

22.Sasu A., Herman H., Mariasiu T., Rosu M., Balta C., Anghel N., Miutescu E., Cotoraci C., **Hermenean A.** 2015. Protective effects of silymarin on epirubicin - induced mucosal barrier injury of the gastrointestinal tract, *Drug and Chemical Toxicology*, 38(4): 442-451

Q3 CHEMISTRY, MULTIDISCIPLINARY; Rank in Category: 89 of 157

Q4 PHARMACOLOGY & PHARMACY; Rank in Category: 198 of 255

Q4 TOXICOLOGY; Rank in Category: 73 of 88

Impact factor: **1.233 (2014)**

23.Petrache Voicu S , Dinu D , Sima C , **Hermenean A** , Ardelean A, Codrici E , Stan M, Zarnescu O, Dinischiotu A. 2015. Silica Nanoparticles Induce Oxidative Stress and Autophagy but Not Apoptosis in the MRC-5 Cell Line, *International Journal of Molecular Sciences*, 16, 29398–29416; doi:10.3390/ijms161226171

Q2 BIOCHEMISTRY & MOLECULAR BIOLOGY; Rank in Category: 134 of 290

Q2 CHEMISTRY, MULTIDISCIPLINARY; Rank in Category: 46 of 157

Impact factor: **2.862 (2014)**

24.Radu M., Dinu D., Sima C., Burlacu R., **Hermenean A.**, Ardelean A., Dinischiotu A. 2015. Magnetite nanoparticles induced adaptive mechanisms counteract cell death in human pulmonary fibroblasts, *Toxicology in Vitro*, vol. 29, 1492-1502, IF=3.338.

Q2 TOXICOLOGY; Rank in Category: 29 of 88

Impact factor: **2.903 (2014)**

25.Fehér P, Ujhelyi, Vecsernyés M, Fenyvesi F, Damache G, Ardelean A, Costache M, Dinischiotu A., **Hermenean A.**,Bácskay I. 2015. Hepatoprotective effects of a self-micro emulsifying drug delivery system containing Silybum marianum native seed oil against experimentally induced liver injury,*Pharmazie* 70:1–8

Q4 CHEMISTRY, MEDICINAL; Rank in Category: 49 of 59

Q3 CHEMISTRY, MULTIDISCIPLINARY; Rank in Category: 107 of 157

Q4 PHARMACOLOGY & PHARMACY; Rank in Category: 215 of 255

Impact factor: **1.052 (2014)**

26.Popescu I.M, Cinteza L.O., **Hermenean A.**, Dinischiotu A. 2015. In vivo exposure of mice spleen to magnetite nanoparticles encapsulated in phospholipid polymeric micelles; an oxidative stress and structural approach, *Digest Journal of Nanomaterials and Biostructures*, Vol. 10, No. 3, p. 871 – 881

Q3 MATERIALS SCIENCE, MULTIDISCIPLINARY; Rank in Category: 188 of 260

Q4 NANOSCIENCE & NANOTECHNOLOGY; Rank in Category: 68 of 80

Impact factor: **0.945 (2014)**

27.Galateanu B., Bunea M.C., Stanescu P.,Vasile E., Casarica A.,Iovu H., **Hermenean A.**, Zaharia C., Costache M. 2015. In Vitro Studies of Bacterial Cellulose and Magnetic Nanoparticles Smart Nanocomposites for Efficient Chronic Wounds Healing, *Stem Cells International*, Article ID 195096, 1-10

Q3 CELL & TISSUE ENGINEERING; Rank in Category: 12 of 21

Impact factor: **2.813 (2014)**

28.Dinescu S., Galateanu B., Radu E., **Hermenean A.**, Lungu A., Stancu I.C., Jianu D., Tumber T., Costache M. 2015. A 3D porous gelatin-alginate-based-IPNs acts as an efficient promoter of chondrogenesis from human adipose-derived stem cells, *Stem Cells International*, article ID 252909, 17 pages

Q3 CELL & TISSUE ENGINEERING; Rank in Category: 12 of 21

Impact factor: **2.813 (2014)**

2016:

29. Balta C, Herman H, Rosu M, Cotoraci C, Ivan A, Folk A, Duka R, Dinescu S, Costache M, Petre A, **Hermenean A**. 2016. Homeostasis of blood parameters and inflammatory markers analysis during bone defect healing after scaffolds implantation

in mice calvaria defects, *Romanian Biotechnological Letters*, 22(6): 12018-12025

Q4 BIOTECHNOLOGY & APPLIED MICROBIOLOGY; *Rank in Category: 153 of 161*

Impact factor: 0.381 (2015)

30. Horge M, Craciun C, Tripon S, Giulei D, Jompan A, **Hermenean A***, C. Rosioru. 2016. Moderate physical activity improves rat bone ultrastructure in experimental osteoporosis, *Acta Endocrinologica (Buc)*, vol. XII, no. 4, p. 392-400 (*corresponding author)

Q4 ENDOCRINOLOGY & METABOLISM; *Rank in Category: 131 of 133*

Impact factor: 0.235 (2015)

31. **Hermenean A**, Smeu C, Gharbia S, Krizbai IA, Ardelean A. 2016. Plant-Derived Biomolecules and Drug Delivery Systems in the Treatment of Liver and Kidney Diseases. *Current Pharmaceutical Design*, 22(35): 5415-5441

Q2 PHARMACOLOGY & PHARMACY; *Rank in Category: 74 of 225*

Impact factor: 3.052 (2015)

32. Folk A, Cotoraci C, Balta C, Suciu M, Herman H, Boldura OM, Dinescu S, Paiusan L, Ardelean A, **Hermenean A**. 2016. Evaluation of Hepatotoxicity with Treatment Doses of Flucytosine and Amphotericin B for Invasive Fungal Infections, *BioMed Research International*, Article ID 5398730, IF=2.476

Q3 BIOTECHNOLOGY & APPLIED MICROBIOLOGY; *Rank in Category: 82 of 161*

Q3 MEDICINE, RESEARCH & EXPERIMENTAL; *Rank in Category: 73 of 134*

Impact factor: 2.134 (2015)

33. Herman H, Onita B, Ardelean G, Ardelean DP, Craciun C, Ardelean A, **Hermenean A**. 2016. Ultrastructural alterations, DNA damage and activation of repair mechanism in liver and kidney of *Leuciscus Cephalus* (L.) exposed to environmental, *Fresenius Environmental Bulletin*, 5(6): 1920-1926

Q4 ENVIRONMENTAL SCIENCES; *Rank in Category: 218 of 224*

Impact factor: 0.372 (2015)

34. Balas M, Sabrina Constanda S, Duma-Voiculet A, Prodana M, **Hermenean A**, Pop S, Demetrescu I, Dinischiotu A. 2016. Fabrication and toxicity characterization of hybrid material based on oxidized and aminated MWCNT loaded with carboplatin, *Toxicology in Vitro*, 37: 189-200

Q1 TOXICOLOGY; *Rank in Category: 19 of 90*

Impact factor: 3.338 (2015)

35. Nyúl-Tóth Á, Suciu M, Molnár J, Fazakas C, Haskó J, Herman H, Farkas AE, Kaszaki J, **Hermenean A**, Wilhelm I, Krizbai IA. 2016. Differences in the molecular structure of the blood-brain barrier in the cerebral cortex and white matter: an in silico, in vitro and ex vivo study. *American Journal of physiology. Heart and circulatory physiology*. 310 (11): H1702-1714

Q4 CARDIAC & CARDIOVASCULAR SYSTEMS; *Rank in Category: 39 of 124*

Q2 PERIPHERAL VASCULAR DISEASE; *Rank in Category: 17 of 63*

Q2 PHYSIOLOGY; Rank in Category: 21 of 83
Impact factor: 3.324 (2015)

2017:

36. Vashisht D, Pandey A, **Hermenean A**, Yáñez-Gascón MJ, Pérez-Sánchez H, Kumar KJ. 2017. Effect of dry heating and ionic gum on the physicochemical and release properties of starch from Dioscorea. *International Journal of Biological Macromolecules* 18(95):557-563

Q1 POLYMER SCIENCE; Rank in Category: 12 of 86

Q1 BIOCHEMISTRY & MOLECULAR BIOLOGY; Rank in Category: 92 of 290

Q1 CHEMISTRY, APPLIED; Rank in Category: 9 of 72

Impact factor: 3.671 (2016)

37. **Hermenean A**, Codreanu A, Herman H, Rosu M, Mihali CV, Ivan A, Dinescu S, Ionita M, Costache M. 2017. Chitosan-graphene oxide 3D scaffolds as promising tools for bone regeneration in critical-size mouse calvarial defects, *Scientific Reports*, 7, Article number: 16641, doi: 10.1038/s41598-017-16599-5

Q1 MULTIDISCIPLINARY SCIENCES; Rank in Category: 10 of 64

Impact factor: 4.259 (2016)

38. Dinescu S, Ignat S, Predoiu L, **Hermenean A**, Ionita M, Mladenov M, Costache M. 2017. Graphene oxide improves chitosan-based biomaterials with applications in bone tissue engineering, *Romanian Biotechnological Letters*, 22(6): 13108-13115

Q4 BIOTECHNOLOGY & APPLIED MICROBIOLOGY; Rank in Category: 152 of 160

Impact factor: 0.396 (2016)

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Q2 TOXICOLOGY; Rank in Category: 41 of 92

Impact factor: 2.467 (2016)

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Q2 RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING; Rank in Category: 56 of 127

Impact factor: 2.088 (2016)

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Impact factor: 1.261 (2016)

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Impact factor: **1.261 (2016)**

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Q4 MEDICINE, RESEARCH & EXPERIMENTAL; Rank in Category: 100 of 128

Impact factor: **1.261 (2016)**

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Impact factor: **3.394 (2017)**

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Q2 MARINE & FRESHWATER BIOLOGY; Rank in Category: 48 of 106

Impact factor: **1.702 (2017)**

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Q2 RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING; Rank in Category: 49 of 129

Impact factor: **2.435 (2017)**

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Impact factor: **2.015 (2017)**

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Impact factor: **1.527 (2018)**

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Q2 CELL BIOLOGY; Rank in Category: 60 of 193

Q1 MEDICINE, RESEARCH & EXPERIMENTAL; Rank in Category: 31 of 136

Impact factor: **4.658 (2018)**

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Q1 PHARMACOLOGY & PHARMACY; Rank in Category: 14 of 267

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Q3 BIOTECHNOLOGY & APPLIED MICROBIOLOGY; Rank in Category: 95 of 162

Q3 CHEMISTRY, ANALYTICAL; Rank in Category: 43 of 84

Impact factor: **2.192 (2018)**

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Impact factor: **2.776 (2018)**

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Q2 NANOSCIENCE & NANOTECHNOLOGY; Rank in Category: 39 of 94

Impact factor: 4.034 (2018)

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Impact factor: 4,694 (2018)

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Q2 CHEMISTRY, MULTIDISCIPLINARY; Rank in Category: 46 of 172

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Q1 PHYSIOLOGY; Rank in Category: 11 of 81

Impact factor: 4,522 (2018)

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Q1 VETERINARY SCIENCES; Rank in Category: 29 of 141
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Q1 TOXICOLOGY; Rank in Category: 6 of 93
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Q2 NANOSCIENCE & NANOTECHNOLOGY; *Rank in Category: 42 of 103*

Impact factor: 4,324 (2019)

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Impact factor: 4,486 (2019)

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Impact factor: 4,366 (2019)

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Impact factor: 3,057 (2019)

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Impact factor: 4,324 (2019)

Q2 AIS

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Q1 TOXICOLOGY; Rank in Category: 21 of 92

Impact factor: 3,351 (2019)

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Q2 CHEMISTRY, MULTIDISCIPLINARY, Rank in Category 88 of 177

Q2 ENGINEERING, MULTIDISCIPLINARY, Rank in Category 32 of 91

Impact factor: 2,47 (2019)

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